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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/616,486	07/08/2003	Jesse T. Quatse 134779.01101				
21269 PEPPER HAM	7590 11/17/200 (III TON LLP	9	EXAM	UNER		
ONE MELLON CENTER, 50TH FLOOR 500 GRANT STREET PITTSBURGH, PA 15219			LASTRA	LASTRA, DANIEL		
			ART UNIT	PAPER NUMBER		
	-,		3688			
			MAIL DATE	DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/616.486 QUATSE ET AL. Office Action Summary Examiner Art Unit DANIEL LASTRA 3688 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.

Any	ture to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). reply received by the Office later than three months after the mailting date of this communication, even if timely filled, may reduce any ned patent term adjustment. See 37 CFR 1.704(b).					
itus						
1)🛛	Responsive to communication(s) filed on 14 July 2009.					
2a)⊠	This action is FINAL. 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
posi	tion of Claims					
4)🛛	Claim(s) <u>7-27</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
61	Claim(s) 7-27 is/are rejected					

8) Claim(s)	are subject to restriction and/or election requirement.
Application Papers	

9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority	under	35	U.S.C.	§	119		

7) Claim(s) _____ is/are objected to.

a)∐ All	b) Some * c) None of:
1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3 🖂	Copies of the certified copies of the priority documents have been received in this National S

application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclesure Statement(s) (PTO/SSICE) Paper No(s)/Mail Date Paper No(s)/Mail Date	4) Interview Summary (PTO-413) Paper No(s)Mall Date. 5) Notice of Informal Patent Application 6) Other:	

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DETAILED ACTION

 Claims 7-27 have been examined. Application 10/616,486 HIGH-PRECISION CUSTOMER-BASED TARGETING BY INDIVIDUAL USAGE STATISTICS was filed 07/08/2003.

Response to Amendment

 In response to Non Final Rejection filed 04/20/09, the Applicant filed an Amendment on 07/14/09, which amended claims 18, 20, 23.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 7-12, 18 and 20-27 are rejected under 35 U.S.C. 102(e) as being anticipated by <u>Sridhar</u> et al (US 2003/0208754).

As per claim 23, Sridhar teaches:

In an electronic system for distributing promotional offers, a method of targeting a plurality of customers from a customer database for distribution of limited quantities of promotional offers from a plurality of promotional offers the method, comprising:

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generating a plurality of scores for said plurality of customers, each said score being associated with one said customer and with one said offer, and each said score measuring a probability that the associated customer will make a purchase in accordance with the associated offer (see paragraph 116 "purchase prediction: The probability that a subscriber will purchase a particular product in a particular week is referred a purchase prediction" i.e. customer-offer score);

identifying, by a computing device in said electronic system a highest score in said plurality of scores (see paragraph 169 "select the ad of the product with largest purchase prediction for this subscriber from the products associated with the selected event");

determining:

a customer, from said plurality of customers, associated with said highest score, and a first promotional offer, from said plurality of promotional offers, associated with said highest score (see paragraph 169);

assigning said first promotional offer to a first personalized offer list for said customer if said first promotional offer satisfies one or more constraints on one or more of the following: a total number of first promotional offers that are distributable, and a total number of promotional offers that are distributable to said customer (See paragraph 175 "sponsor defines restriction on number of offers"):

successively repeating said identifying, determining and assigning steps for each highest score until all of the promotional offers in said plurality of promotional offers have been assigned to personalized offer lists (see paragraphs 165-180); and

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distributing one or more of the promotional offers to one or more of the customers in said plurality of customers (see paragraph 106, 165-191, "select product with next largest purchase prediction from product list of the current event and repeat step 19 to 27 until all products in the list are covered" see paragraph 191). Sridhar objective is to draw a customer's attention to a product which has the largest purchase prediction for said customer (see paragraph 156) and selects an ad from a set of ads pre-selected for said customer (see paragraph 106) where said ads are delivered to said customer in a sequence (i.e. from highest to lowest purchase prediction probability) from the products associated with a selected event (see paragraph 169-170) and where sponsors of said ads impose a restriction or constraint on the number of such offers (see paragraph 175). Therefore, Sridhar teaches a customer-based system as defined by Applicant's specification in page 7, lines 10-15 where products' offers are selected for each customer and where said offers are presented to said customer in a sequence based upon said offers' purchase prediction or score (i.e. probability that an offer would be accepted by a customer), similar to the Applicant's claimed invention.

As per claim 24, Sridhar teaches:

wherein said promotional offers relate to a plurality of products organized in taxonomic groupings, and the method further comprises:

basing the scores associated with one or more of said offers on the grouping probability that a customer will purchase any product in a given taxonomic grouping (see paragraph 133).

As per claim 25, Sridhar teaches:

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wherein a score is based on said grouping probability and the offer associated with said score is for a product included in said given taxonomic grouping (see paragraph 133).

As per claim 26, Sridhar teaches:

wherein a score is based on said grouping probability and the offer associated with said score is for a product not included in said given taxonomic grouping (see figure 4C).

As per claim 27, Sridhar teaches:

wherein said one or more constraints include a limit on the number of offers delivered to any individual customer and said method further comprises: performing said assigning step for each said identified customer only a number of times equal to said limit (see paragraph 68).

As per claim 7, Sridhar teaches:

wherein said promotional offers relate to a plurality of products organized in taxonomic product grouping, and the method further comprises:

providing a product grouping probability profile associating with each said product grouping a measure of the probability that a customer will purchase a product from said product grouping (see paragraphs 213-229); and

deriving said score for each said combination of customer and promotional offer from the measure of probability associated with each product grouping containing a product subject to the promotional offer (see paragraphs 175-201).

As per claim 8, Sridhar teaches:

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providing access to a transaction history database for at least a substantial portion of said plurality of customers, wherein the database associates with each customer of said substantial portion an identification of transactions engaged in by the customer and an identification of products previously purchased by the customer in each of the transactions (see paragraphs 71 and 134);

providing a transaction summary data structure associating with each said customer the total number of transactions the customer has engaged in and the numbers of transactions including each said product grouping (see paragraphs 140-159):

averaging the product groupings per transaction from said transaction summary data structure for at least a portion of said customers (see paragraphs 140-159); and

deriving said measure of probability associated with each said product grouping from the averaged product groupings per transaction for the associated product grouping (see paragraphs 140-159).

As per claim 9, Sridhar teaches:

normalizing said product grouping probability profile for an individual customer to reflect a relative probability of said individual customer purchasing from a product grouping with respect to an average probability for a customer to purchase from said product grouping (see paragraphs 70, 140-160).

As per claim 10, Sridhar teaches:

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applying preprogrammed targeting criteria embodying a marketing strategy to said product grouping probability profile to provide a profile of offer scores (see paragraph 160)

As per claim 11, Sridhar teaches:

said marketing strategy includes at least one targeting product grouping and a promoted product grouping linked to said at least one targeting product grouping; and said promotional offers are distributed only to customers having a high probability of acceptance for said at least one targeting product grouping (see paragraphs 175-178).

As per claim 12, Sridhar teaches:

providing a taxonomy of said product groupings; wherein said at least one targeting product grouping is defined in reference to said taxonomy (see paragraph 70, 133, figure 4C).

As per claim 18, Sridhar teaches:

In an electronic system for distributing promotional offers, a method of adjusting the distribution of limited quantities of promotional offers from a plurality of promotional offers to a plurality of customers comprising:

providing, for each combination of customer and promotional offer from said pluralities, a measure of an acceptance probability that the customer will accept the promotional offer (see paragraphs 175-201),

said acceptance probability being indicative of a likelihood said customer will accept the promotional offer in comparison to other customers included in said plurality of customers (see paragraph 175-178; Sridhar teaches that sponsors impose a

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restriction on number of offers and therefore, in order to determine which subscriber would receive an offer from a plurality of subscribers, <u>Sridhar</u> compares the likelihood that other subscribers would accept said offer based upon said subscribers demographic, previous history of accepted similar offers in the past and details of last accepted offer);

presenting the measures of acceptance probabilities for an individual customer in a graphical display on said electronic system (see figures 1A, 7; 4D2; paragraphs 136-149).

wherein said graphical display includes a plurality of graphic elements, one said graphic element being associated with each said measure of acceptance probability provided for said individual customer at least for the highest ranking of said measures (see paragraph 116; 136-149; figures 1A, 7);

enabling adjustment of said measures of acceptance probability by movement of the associated graphic elements; selecting by a computing device in said electronic system a limited quantity of offers from said plurality of offers for distribution to said individual customer, wherein said limited quantity of offers are selected substantially in descending order of said measures of acceptance probabilities as adjusted in said enabling step and distributing at least one of the limited quantity of offers to said individual customer (see paragraphs 164-201; see figure 7; 136-149).

As per claim 20, Sridhar teaches:

In an electronic system for distributing promotional offers, a method of distributing limited quantities of promotional offers to a plurality of customers utilizing a

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transaction history database comprising an identification of transactions engaged in and an identification of products previously purchased by one or more customers, said method comprising:

deriving a historical purchase probability profile from said transaction history database for at least a portion of the customers in said database and for a plurality of product groupings in said database, said historical purchase probability profile providing for each individual customer and for each individual product grouping a measure of the probability that said individual customer will purchase a product from said individual product grouping (see paragraphs 64, 71, 116):

for a customer included in said portion of the customers, applying a statistical model to said purchase probability profile to determine an estimated probability that said customer will purchase a product from said product groupings (see paragraph 134-135);

said estimated probability being indicative of a likelihood said customer will purchase said product in comparison to all other customers included in said portion of customers (see paragraph 175-178; Sridhar teaches that sponsors impose a restriction on number of offers and therefore, in order to determine which subscriber would receive an offer from a plurality of subscribers, Sridhar compares the likelihood that other subscribers would accept said offer based upon said subscribers demographic, previous history of accepted similar offers in the past and details of last accepted offer);

selecting by a computing device in said electronic system for distribution to said customer (see paragraphs 178, 212) an offer associated with a product in said product groupings, wherein said selected offer is associated with a highest estimated probability

that said customer will purchase said product in comparison to all other customers included in said portion of customers (see paragraph 175):

determining whether said selected offer satisfies one or more constraints, wherein one or more constraints is a limitation on a total quantity of promotional offers for said product that are distributable to all customers and in response to said selected offer satisfying the one or more constraints, distributing the selected offers to said customer (see paragraph 175; "sponsors may impose a restriction on number of such offers").

As per claim 21, Sridhar teaches:

wherein said statistical model is an empirical Bayesian statistical model (see paragraph 135).

As per claim 22, Sridhar teaches:

wherein one or more of said product groupings includes one and only one product (see paragraph 191).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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 Claims 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sridhar et al (US 2003/0208754) in view of Deaton et al (U.S. 6.684.195).

As per claim 13, <u>Sridhar</u> fails to teach wherein said marketing strategy includes a MoveStock strategy. However, <u>Deaton</u> teaches a MoveStock strategy (see column 105, lines 63-67). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include a MoveStock marketing strategy, as taught by <u>Deaton</u>. It would important to <u>Sridhar</u> to include arbitrary grouping of products, such as hot cereals, because if a single product in the grouping of products is set up as a criteria and someone is infrequent to that criteria, a manufacturer might believe the customer is not buying hot cereals and would incorrectly target the customer with hot cereals' promotions.

As per claim 14, <u>Sridhar</u> fails to teach wherein said marketing strategy includes an UpSell strategy. However, <u>Deaton</u> teaches an UpSell marketing strategy (see column 90, lines 60-67; column 86). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include an UpSell marketing strategy, as taught by <u>Deaton</u>. Including this feature in Sridhar would induce customers to expend more, as the customers that expend more money would receive the better offers.

As per claim 15, <u>Sridhar</u> fails to teach wherein said marketing strategy includes a CrossSell strategy. However, <u>Deaton</u> teaches a CrossSell strategy (see column 106, lines 11-40; column 109, lines 25-45; column 105). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to

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know that <u>Sridhar</u> would include a CrossSell marketing strategy, as taught by <u>Deaton</u>.

<u>Sridhar</u> would use the customers' purchase history to determine the promotions' offers that would induce customers to purchase the promoted products.

As per claim 16, <u>Sridhar</u> fails to teach wherein said marketing strategy includes a Reward strategy. However, <u>Deaton</u> teaches a reward marketing strategy (see column 74, lines 19-27). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include a Reward marketing strategy, as taught by <u>Deaton</u>. This feature would reward customers that purchase the promoted products.

As per claim 17, <u>Sridhar</u> fails to teach wherein said marketing strategy includes a BrandChange strategy. However, <u>Deaton</u> teaches a BrandChange marketing strategy (see column 103, lines 10-16). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that <u>Sridhar</u> would include a BrandChange marketing strategy, as taught by <u>Deaton</u>. This feature would target customers with incentives to change products' brands.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Sridhar</u> et al (US 2003/0208754).

As per claim 19, <u>Sridhar</u> fails to teach wherein said graphical display comprises a bar chart, said graphic elements comprise individual bars of said bar chart, and said movement comprises dragging said bars to lengthen and shorten them and thereby increase and decrease the associated measure of acceptance probability. However, Official Notice is taken that it is old and well known in the computer art to use software

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programs to create bar charts from input data and adjust said bar charts according to a user preference. It would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that if <u>Sridhar</u> sorts the offers acceptance probability in order to determine the products with the largest purchase predictions, <u>Sridhar</u> would also present all the purchase prediction products in a graphic bar chart. The user would be able to adjust the graphic bar chart in the user's computer and would be able to select the products' offers based upon said adjustment.

Response to Arguments

6. The Applicant argues that <u>Sridhar</u> does not teach Applicant's claimed invention because <u>Sridhar</u> analyzes offers for a single customer in isolation (i.e. only one customer is considered at a time) and according to the Applicant, <u>Sridhar</u> distributes what if determine to be the best offer based on analyzing information only for the considered customer instead of examining offers for a plurality of customers concurrently. The Examiner answers that <u>Sridhar</u> teaches in paragraphs 175-178 that sponsors impose a restriction on number of offers and therefore, in order to determine which subscriber would receive an offer from a plurality of subscribers, <u>Sridhar</u> compares the likelihood that other subscribers would accept said offer based upon said subscribers' demographic, previous history of accepted similar offers in the past and details of last accepted offer). Therefore, contrary to Applicant's argument, <u>Sridhar</u> teaches Applicant's claimed invention as <u>Sridhar</u> determines a purchase acceptance probability of an offer for a particular subscriber in comparison to the purchase

acceptance probability of said offer from other subscribers in order to select a subscriber to target offers that are limited in number.

The Applicant argues that <u>Sridhar</u> does not teach that an offer be assigned to a customer only if the offer is within a total number of promotional offers that are distributable and/or a total number of promotional offers that are distributable to that customer. The Examiner that <u>Sridhar</u> teaches in paragraph 175 that sponsors impose a restriction on the number of offers that are distributable. Therefore, contrary to Applicant's argument, <u>Sridhar</u> teaches Applicant's claimed invention, as Sridhar places a constraint in the number of offers.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL LASTRA whose telephone number is 571-272-6720 and fax 571-273-6720. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ROBERT A WEINHARDT can be reached on (571)272-6633. The official Fax number is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/DANIEL LASTRA//D. L./
Primary Examiner, Art Unit 3688
November 14, 2009